

User's Manual

High Definition Cable Receiver
Personal Video Recorder

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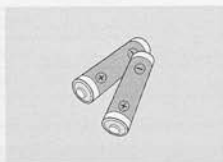
1. Introduction

1.1 Package Contents

Make sure that the following accessories are supplied with your receiver.



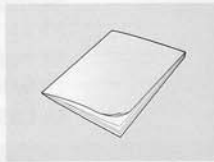
Remote control



AAA Batteries (2 EA)

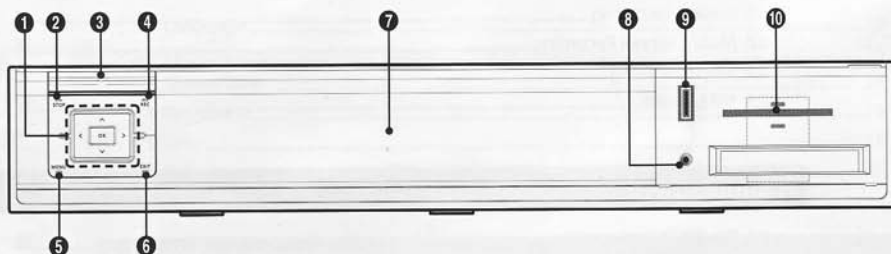


Video/Audio cable



User's manual

1.2 Front Panel



^v/ Channel (Program)		Press to change the channel or select a menu item.
1	<>/Volume	Press to adjust the volume or select a menu item.
	OK	Press to select a menu, or confirm the selected operation.
2	STOP	Press to stop a recording or playback.
3	STANDBY (Power)	Press to turn the receiver power on or off.
4	REC	Press to record a program.
5	MENU	Press to display the main menu on the screen or return to the previous menu.
6	EXIT	Press to exit and return to the previous menu and screen.
7	Display window	Displays the current state such as channel, time, and message.
8	V-Format	Press to change resolution of HD picture. (1080i (default), 720p, 480p).
9	USB	Connect the USB memory with USB cable.
10	Smartcard Slot	Insert a Smartcard.



The front of the product is subject to change without notice.

1.3 Smartcard

Caution

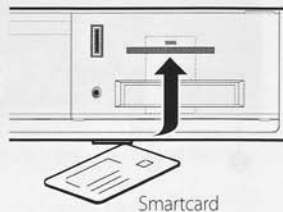
Please do not plug in the main power supply cord until you have finished all of the connections!

Inserting a Smart card

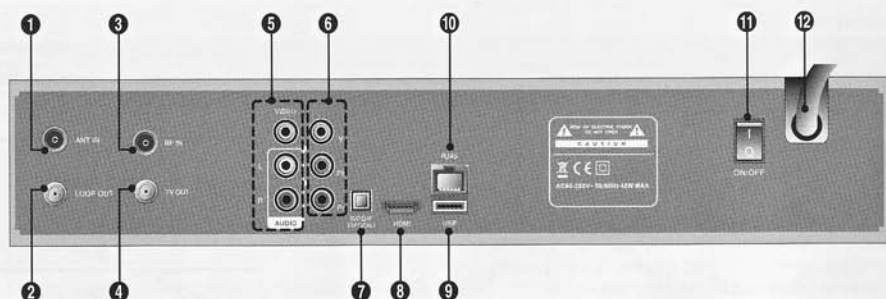
A Smart card looks similar to a credit card and entitles you to view and listen to all the channels you choose to subscribe to.

The Smart card slot on the receiver can be used for Smart cards only.

1. Open the right-hand cover on the front panel of the receiver.
2. Hold the Smart card horizontally with the electronic chip (small square-shaped, gold in color) facing upwards.
3. Insert the Smart card into the top slot.



1.4 Rear Panel



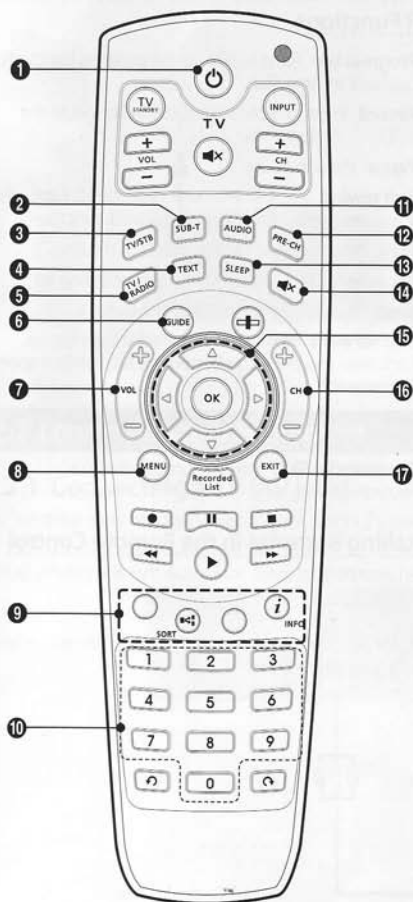
1	ANT IN	Connect a CATV signals.
2	LOOP OUT	Connect to other receiver.
3	RF IN	Connect to television antenna input.
4	TV OUT	Connect a television via a coaxial cable.
5	VIDEO/AUDIO	Connect to the TV or other equipment with Video/Audio cable.
6	Y/Pb/Pr (Component)	Connect to the TV an external device with Component input, such as DVD.
7	S/PDIF (OPTICAL)	Connect a digital amplifier output
8	HDMI/DVI	Use the HDMI cable to connect this jack to the HDMI jack on your TV for the best quality picture.
9	USB	Connect the USB memory with USB cable.
10	RJ45	Connect the LAN cable.
11	ON/OFF (Power switch)	Turn on and off the receiver.
12	Power supply	90~250V AC, 50/60Hz



The rear of the product is subject to change without notice.

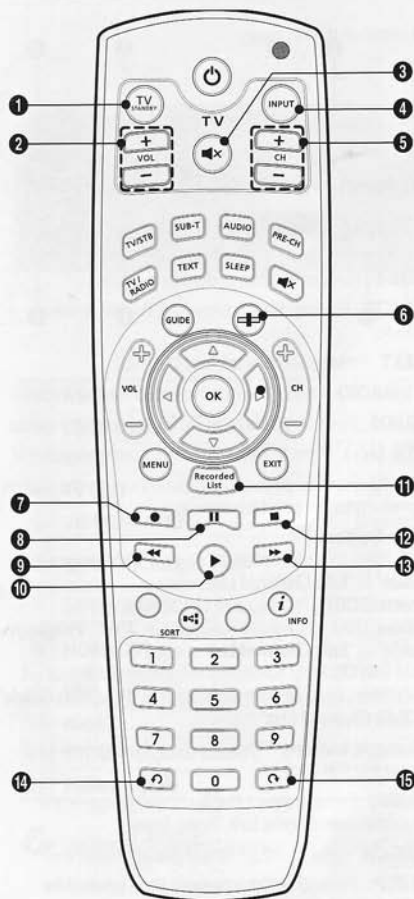
1.5 Remote Control

All the functions can be controlled with the remote control.
Some function can also be adjusted with the buttons on the front panel of the receiver.
Before you use the remote control, please install the batteries.



Basic functions

1. **STANDBY** Press to switch between operation and standby mode.
2. **SUB-T** Press to enable or disable subtitle.
3. **TV/STB** Press to switch between TV and Receiver mode.
4. **TEXT** Press to see the teletext by OSD.
5. **TV/RADIO** Press to switch between TV and Radio.
6. **GUIDE** Press to display the TV/Radio program guide.
7. **VOL (+/-)** Press to increase or decrease the volume.
8. **MENU** Press to display the main menu on the screen or return to the previous menu.
9. **Color buttons**
Red: Press to perform functions in "PVR", "Program Guide" or "Edit Channel List" menu.
Green (SORT): Press to sort channel list.
Yellow: Press to perform functions in "PVR", "Program Guide" or "Edit Channel List" menu.
Blue (INFO): Press to display the information box on the screen, or to perform functions in "Program Guide" or "Edit Channel List" menu.
10. **Numeric buttons** Press to select the channel and enter the PIN code.
11. **AUDIO** Press to select the audio language or the sound mode. (Mono, Left, Right, Stereo).
12. **PRE-CH** Press to return to the previous channel.
13. **SLEEP** Press to select a present time interval for automatic shut off.
14. **Mute** Press to enable or disable audio temporarily.
15. **▲/▼/◀/▶ (Arrow buttons)** Press to move the cursor to the up, down, left or right menu option.
OK Press to selects a menu, or confirms the selected operation.
16. **CH (+/-)** Press to change channel up and down.
17. **EXIT** Press to return the normal viewing mode from a menu.



TV Control Buttons

- 1. TV STANDBY** Press to turn on and off your TV.
- 2. TV Volume** Press to increase or decrease the TV volume.
- 3. TV MUTE** Press to enable or disable the TV audio temporarily.
- 4. INPUT** Press to check the TV's external connection status and select an external device.
- 5. TV Channel** Press to change the current TV channel.

PVR Functions

- 6. Progress bar** Press to display the progress bar during playback or Time Shift.
- 7. Record** Press to record the current channel to the HDD.
- 8. Pause** Press to pause.
- 9. Fast rewind** Press to rewind at high speed. Each time you press this button the rewind speed is increased.
- 10. Play** Press to play at normal speed or resumes.
- 11. Recorded List** Press to display the recording list.
- 12. Stop** Press to stop a recording or playback.
- 13. Fast forward** Press to fast forward at high speed. Each time you press this button the fast forward speed is increased.
- 14. Instant replay** Press to jump back and plays from that location.
- 15. Commercial Skip** Press to jump ahead in a recording.

Installing Batteries in the Remote Control

When inserting batteries, make sure that the polarity (+/-) is correct.



The design of the remote control may be changed without any notice in advance.

2. Setup

There are several ways of connecting the receiver to your TV, VCR and Hi-Fi system. Consult your local supplier for assistance in setting-up your system that is best suited to your requirements.

2.1 Connecting the Antenna

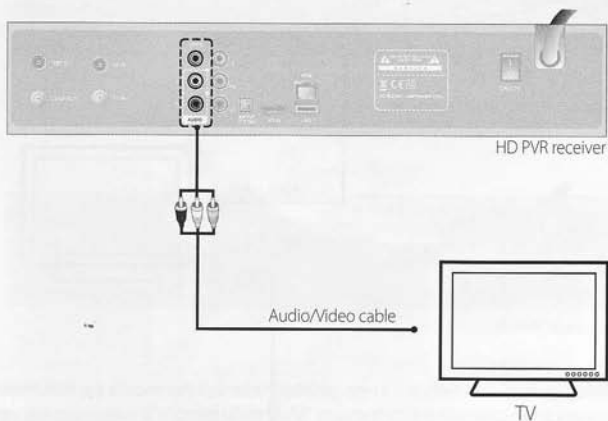
Connect the antenna cable (RF cable) from cable system to the ANT IN jack of the receiver.



2.2 Connecting Your Equipment

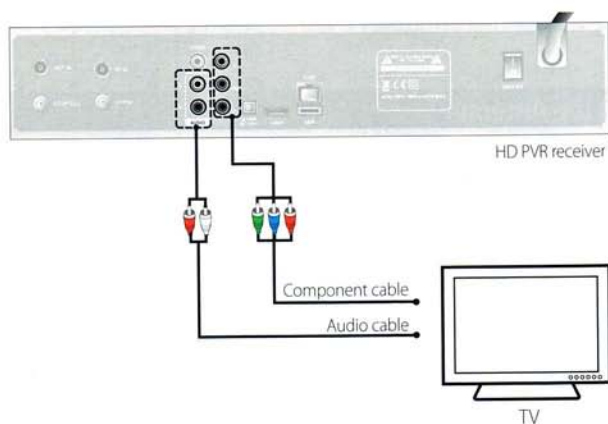
2.2.1 Connecting a TV (AV jack)

Connect the receiver to a TV with AV jack, if your TV is equipped for it.



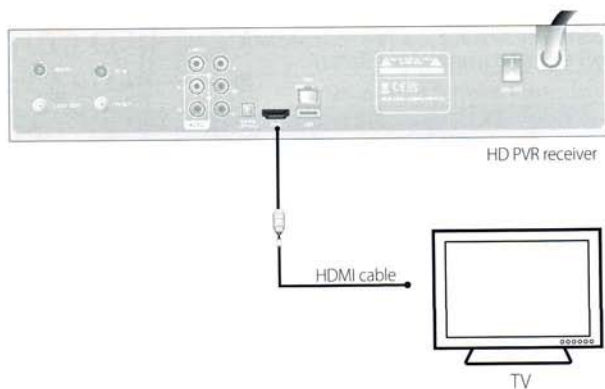
2.2.2 Connecting a TV (Component jack)

Connect the receiver to a TV with Component jack, if your TV is equipped for it.



2.2.3 Connecting a TV (HDMI jack)

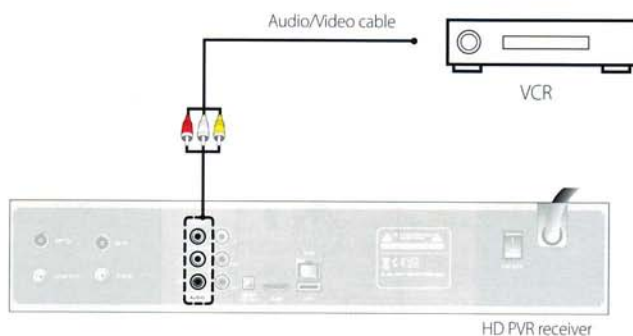
Connect the receiver to a TV with HDMI jack, if your TV is equipped for it.



 *HDMI, or high-definition multimedia interface, is a next-generation interface that enables the transmission of digital audio and video signals using a single cable without compression. "Multimedia interface" is a more accurate name for it especially because it allows multiple channels of digital audio (5.1 channels). When connecting via HDMI, you do not need to connect Audio Cables. You only need to connect Audio cables when connecting via HDMI/DVI.*

2.2.4 Connecting a VCR

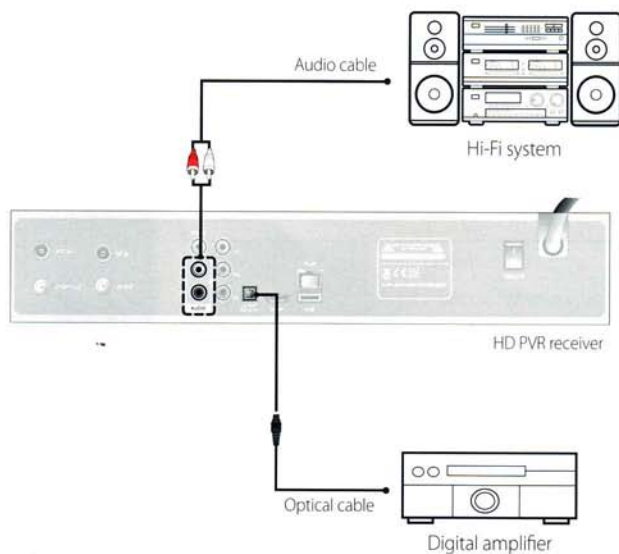
Connect the receiver to a VCR with AV jack, if your VCR is equipped for it.



2.2.5 Connecting a audio system

Select the most appropriate procedure for your convenience.

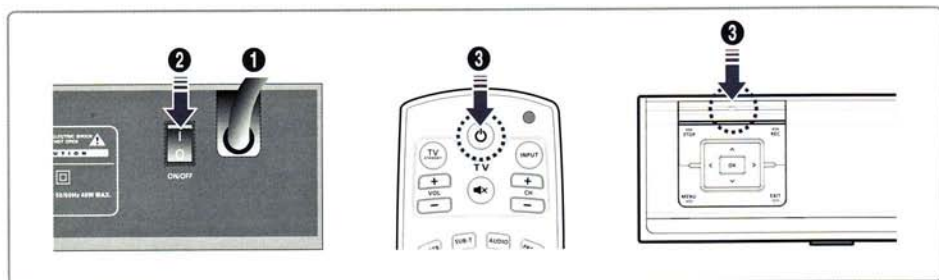
- Connect the receiver to a Hi-Fi system using an Audio (stereo) cable.
- Connect the receiver to a digital amplifier for higher quality sound using an S/PDIF optical cable.



2.4 Turning On and Off Your Receiver

Power On

1. Connect the power cord of the receiver to a wall outlet.
2. Turn on the power switch located at the back of the receiver.
3. Press the **STANDBY** button on the front of the receiver or on the remote control.



Power Off

Press the **STANDBY** button again.
The receiver will display "Off".

3. Easy installation

Before you watch the television or radio program, you must perform the installation procedure first.

Therefore you will see only **"Easy Installation"** menu at first when you plug into your system.

The Easy Installation gives you the convenience of selecting various languages, adjusting the time and channel search.

3.1 Language



The first option in **"Easy Installation"** is to select the required language of the Menu, Audio, or Subtitle.

Press the **▲/▼** button to select the required language and press the **OK** button to change the language.

- The Language of the Menu, Audio, or Subtitle will be changed to the selected language.

3.2 TV



You can set the aspect ratio of your TV.

Press the **▲/▼** button to select the required option and press the **OK** button.

- If you have a TV set with 4:3 picture format, select 4:3 TV and if you have a TV set with 16:9 picture format, select 16:9 TV.

3.3 Screen Type



You can select the display format according to the TV screen ratio.

Press the **▲/▼** button to select the required option and press the **OK** button.

4:3 TV	Auto, Letterbox, Center cut
16:9 TV	Auto, Pillarbox, Pan and scan

3.4 Resolution



The receiver supports various video resolutions (480p, 720p, and 1080i). Press the **▲/▼** button to select the required option and press the **OK** button.

3.5 Time

You can set your local time according to your location.



1. Press the **◀/▶** button to select the current time zone from standard time and then press the **OK** button. When you press the **◀/▶** button, the time zone will move by 30 minutes.
2. If you want to turn the Day Light Saving on, press the **▲/▼** button to select "On" and press the **OK** button.

3.6 Search



You can search the channels according to the automatic or manual mode. Please wait until the channel search is complete.

Press the **▲/▼** button to select the required option and then press the **◀/▶/Numeric** button to set it as you want.



For more information, refer to **5.4 Installation**.

4. Basic Functions

4.1 Changing the Channel

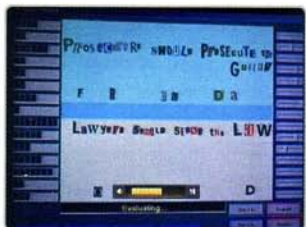
After the television channels have been programmed, you will see program information for a few seconds each time you change the channels.

You can change the current channel using one of the following methods.



- You can change the channel using the **CH +/-** button and change to required channel by entering its channel number with the **Numeric** (0-9) buttons.
- Press the **PRE-CH** button to return to the previous channel.
- Press the **TV/RADIO** button to switch between TV channels and radio channels.
- You can change channel by using the channel banner, simple channel list, or program guide.

4.2 Volume Control



- Press the **VOL +/-** buttons to adjust the volume level. Volume level bar is displayed.
- Press the **Mute** button to temporarily stop the volume. To cancel mute, press the **Mute** button again or press the **VOL +/-** buttons.

4.3 Audio



If the current program is available in multiple audio languages, you can select the language that you wish to listen to.

1. Press the **AUDIO** button to display the audio menu.
2. Press the **▲/▼** button to select the required audio language and press the **OK** button.
3. Press the **◀/▶** button to select audio output (**Left**, **Right**, or **Stereo**).



You can change a default audio language in the system setting menu mode.

4.4 Subtitle



If the current program provides subtitle information, you can select the language for the subtitle.

1. Press the **SUB-T** button to display the subtitle menu.
2. Press the **▲/▼** button to move to the corresponding subtitle and press the **◀/▶** button to select the required subtitle language.
 - The subtitles will be displayed on the screen.

4.5 Teletext

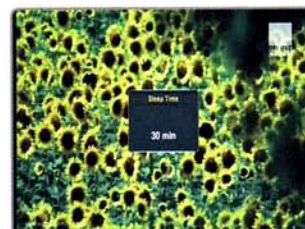


If the current program provides teletext, you can watch teletext.

Press the **TELETEXT** button.

The teletext is displayed on the screen.

4.6 Sleep Time



You can select a time period of between 10 and 90 minutes after which the receiver automatically switches to standby mode.

Press the **SLEEP** button to select the preset time interval (Off~90) for staying on.

4.7 Channel List



1. When you press the **OK** button during receiving service stream, you can view simple channel list.
2. Press the **▲/▼** button to select the required channel and then press the **OK** button.
3. Press the **TV/RADIO** button to switch between TV channels and radio channels.

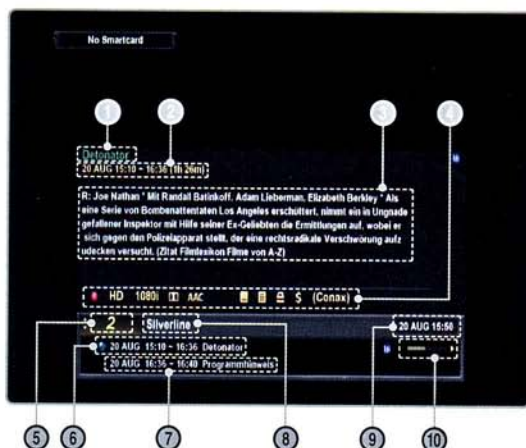
To get the channel sort list

1. Press the **Green** button to display the channel sort list.
2. Press the **▲/▼** button to select the sort list you want and then press the **OK** button to get it.

4.8 Channel Banner

When you press the **Blue** button during receiving service stream, you can view channel banner.

- Press the **▲/▼** button to select the channel and then press the **OK** button.
- Press the **◀/▶** button to view to previous or next program information.
- Press the **Blue** button to view to the program information.



- Program name
- Program broadcasting time
- Detailed program information
- Icons



Displayed when the program is recording.



Displayed when the channel provides HD programs.



Displays the resolution of the current programs.



Displayed when the program is broadcast in Dolby Digital.



Displayed when the program is broadcast in AAC Audio.



Displayed when the program is broadcast in subtitle language.



Displayed when the program is broadcast in teletext.



Displayed when the channel is a locked channel.



Displayed when the channel is a scrambled channel.



Indicates the minimum level of age for viewing the program.

- Current channel number
- Current program broadcasting time
- Next program information
- Current channel name
- Current time
- Current program progress bar

5. Menu Guide

5.1 PVR

5.1.1 File List

File List manages the files and directories in the built-in HDD.



1. Press the **▲/▼** button to select **"File List"** on the PVR menu and press the **OK** button.
2. Press the **▲/▼** button to select **"AV"**, **"MP3"**, or **"Photo"** and press the **OK** button.
The files and directories saved in the HDD will appear.
3. Press the **▲/▼** button to select **"AV"**, **"MP3"**, or **"Photo"** and press the **OK** button.

AV	Directory that saves recorded files.
MP3	Directory that saves MP3 files.
Photo	Directory that saves photo image files.



Editing the File/Folder Lists

1. Press the **Yellow** button to display the edit menu on the File List menu.
2. Press the **▲/▼** button to select the required option and press the **OK** button.
3. Use the **▲/▼/◀/▶/OK** button to edit the selected file/folder list.

New Directory	To create a new directory in the current directory.
Rename	To change file or directory names. Characters such as 0~9, a~z, and A~Z can be used.
Delete	To delete a file or directory.
Move	To change the position of the files. Using the ▲/▼ button, select the files you want to move and press the OK button.
Copy	To copy the file to built-in HDD or USB memory. Using the ▲/▼ button, select the files you want to move and press the OK button.



The names of the basic directories cannot be changed.



Sorting the File/Folder Lists

1. Press the **Green** button on the File List screen.
The file sort menu will appear.
2. Press the **▲/▼** button to select the arrangement method and press the **OK** button.

Title	To arrange files in file name order.
Date	To arrange files in date order.

5.1.2 Reservation

You can set reserved recording functions including adding, changing and deleting reserved recordings.



1. Press the **◀/▶** button to select "PVR" in the main menu and press the **OK** button.
2. Press the **▲/▼** button to select "Reservation" and press the **OK** button.
Timer screen is displayed.

Adding

1. Press the **Red** button to display the add screen.
2. Press the **▲/▼** button on the add screen to select the items for setting.



Channel	To select the channel you want to record.
Mode	To select the interval for the reserved recording. You can choose to record once, daily or weekly.
Date	To set the date for the reserved recording.
Start	To set the time the reserved recording starts.
End	To set the time the reserved recording ends. If end time is passed, the reserved recording will stop.

3. Press the **Red** button to save.

Changing

1. Press the **▲/▼** button to select a reserved recording to be change and press the **Yellow** button.
2. When the edit screen appears, change the reserved recording in the same way as you did with adding.



Deleting

- Pressing the **Green** button on the edit screen deletes the selected recording list only.
- To delete all reserved recording lists, press the **Green** button on the Timer screen and then press the **OK** button..



If you skip a reserved channel, or delete it, the reserved settings are canceled.

5.1.3 Format HDD

You can format (erase) the disk drive if necessary.



1. Press the ◀/▶ button to select **"PVR"** in the main menu and press the **OK** button.
2. Press the ▲/▼ button to select **"Format HDD"** and press the **OK** button.
3. Enter the PIN code using the **Numeric (0~9)** button and press the **OK** button.
 - The PIN code preset to 0000 from the factory.
 - The code can be changed from the **"Change PIN Code"** menu.

5.1.4 PVR Setting

You can use the PVR functions effectively by setting the following PVR options.



1. Press the ◀/▶ button to select **"PVR"** in the main menu and press the **OK** button.
2. Press the ▲/▼ button to select **"PVR Setting"** and press the **OK** button. The PVR Setting option is displayed.
3. Select the required option and set it as you want.

Guard Time Start	To set the guard time start of the reserved recording.
Guard Time End	To set the guard time end of the reserved recording.
Default Record Duration	To set the default record duration.
Instant Replay	To set the interval of instant replay time.
Commercial Skip	To set the interval of skip time.

5.2 Program Guide

The program guide displays program information about each channel, based on the date and time. You can also reserve a recording by pressing the **• (Record)** button.

5.2.1 Viewing the Program Guide Information



- Press the **◀/▶** button to select "Program Guide" on the main menu and press the **OK** button.
 - You can access program guide simply by pressing the **GUIDE** button on the remote control.
- Press the **EXIT** or **GUIDE** button to exit the program guide screen.

▲/▼/◀/▶	To move the cursor to the up, down, left, or right.
OK	To switch the selected channel. (among the currently serviced programs)
Red	To check the program guide on the required date.
Green	To sort the channel lists.
Blue	In case detailed info content is too long to check, you can check its information as a long lists form, and resize its lists by pressing Blue button.
Record	To reserve recording of the channel.



The Program Guide information might not be supported by the service providers.

5.2.2 Recording Reservation by Program guide

You can set a program to be record at a specific time by program guide.



- Press the **◀/▶/▲/▼** button to select to the program to be record and press the **OK** button.
- Select the required option and set it as you want.
- Press the **Red** button to save.
 - The reservation icon is displayed.
 - You can check the reserved recording list by using the "PVR" > "Reservation" menu.
 - You can also delete or edit the reserved recording list.



For more information about recording reservation, refer to **5.1.2 Reservation**.

5.3 Edit Channel List

You can create favorite lists, lock, delete, or skip channel.



1. Press the   button to select "**Edit Channel List**" in the main menu and press the **OK** button.
2. Press the   button to select the required option and press the **OK** button.
3. Among the all channel lists, the selected channel can be moved to the right folder of "**Lock, Delete, or Skip, Favorite (1~16)**".
 - To add from edit list at right folder, press the **OK** button.
 - To remove the channel list from edit list at right folder, press the **OK** button.
 - To sort the channels, press the **Green** button. Select the required arrangement and press the **OK** button.
 - If you want to include all the channels in the channel list, press the **Red** button.
 - To rename the channel, press the **Yellow** button.
 - To rename the favorite, press the **Blue** button.
4. To confirm the channel list, press the **MENU** button or **EXIT** button and press the **OK** button to save.



Lock

You can lock channels in any of the list in order to prevent e.g. your children from watching.

1. Press the **▲/▼** button to select the channel you want to lock and press the **OK** button.
2. Repeat the procedure for each channel you want to lock.
When you lock a channel in any list, the channel will be locked automatically in all other lists.



Delete

You can delete the TV or Radio channel from the current list.

Press the **▲/▼** button to select the channel you want to delete and press the **OK** button.



Skip

You can skip the TV or Radio channel from the current list.

Press the **▲/▼** button to select the channel you want to skip and press the **OK** button.

- To recover the skipped channel, press the **OK** button from edit list.



Favorite (Favorite 1~16)

You can edit favorite TV and Radio list. This enables you to create the 16 favorite TV and Radio lists.

Press the **▲/▼** button to select the channel you want to edit on the favorite list and press the **OK** button.

5.4 Installation

You can search the channels according to the automatic or manual mode. Please wait until the channel search is complete.



Search

1. Press the **Numeric** buttons to set the Start Frequency and Symbol Rate of the cable signal.
2. Press the **◀/▶** button to select the constellation ("Auto, 16, 32, 64, 128, or 256 QAM").
3. Press the **◀/▶** button to select the spectral invert ("Auto, Off, or On").
4. Press the **Numeric** buttons to set the Network ID.
5. Press the **OK** button and searching will start.
6. When searching is finished, press the **OK** button to save the channel list.
7. Press the **▲/▼** button to select "Antenna Power" and press the **◀/▶** button to select "On" or "Off".

5.5 System Setting

If you want to customize the system to suit you better, you can specify some settings from the submenus in the "System Setting" menu.



1. Select "System Setting" in the main menu with the ◀/▶ buttons and press the OK button.
2. Enter the PIN code using the Numeric (0~9) button.
3. Press the ▲/▼ button to select the sub menu and press the OK button.



The PIN code preset to 0000 from the factory.

5.5.1 Language

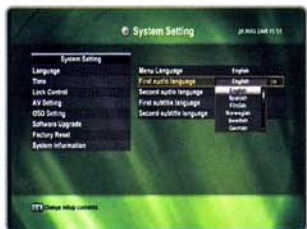
You can select the required language of the Menu, Audio, or Subtitle.



Menu Language

You can select in which language the menus will be shown.

Press the ▲/▼ button to move to the language you want and press the OK button.



First audio language/Second audio language

You can change default language for audio when changing services.

Press the ▲/▼ button to move to the language you want and press the OK button.



- Select the audio language between the first and second audio language.
- If the first audio language is not selected, then the second audio language is selected by default. (If both the first and second audio language are not available, the audio language is set to the first audio language the selected channel supports for.)



First subtitle language/Second subtitle language

You can change default language for subtitle when changing services.

Press the ▲/▼ button to move to the language you want and press the OK button.



- If you cancel the subtitle function, select the off.
- Select the subtitle language between the first and second subtitle language.
- If the first subtitle language is not selected, then the second subtitle language is selected by default. (If both the first and second subtitle language are not available, the subtitle language is set to the first subtitle language the selected channel supports for.)

5.5.2 Time

You can set the Local time, Wakeup time, and Sleep time.



Time Offset/Daylight Saving

You can set your local time according to your location.

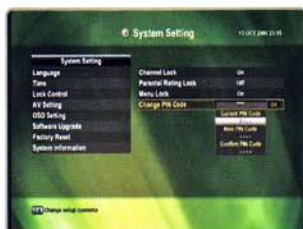
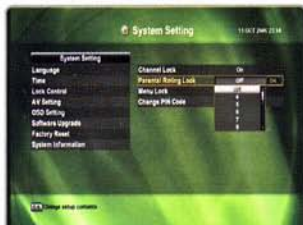
1. Press the ◀/▶ button to select the current time zone from standard time, then and press the **OK** button. When you press the ◀/▶ button, the time zone will move by 30 minutes.
2. If you want to turn the Day Light Saving on, press the ▲/▼ button to select "On" and press the **OK** button.

Wakeup Time/Sleep Time

You can set the On/Off timers so that the receiver will switch on or off automatically at the time you select.

1. Press the ◀/▶ button to select the required option ("Off", "Once", "Daily", or "Weekly").
2. Use the Color/▲/▼/◀/▶ button to select the year, month, and day and then press the **OK** button.
3. Press the ◀/▶ button to move the cursor and then use the **Numeric** (0~9) button enter the hour and minute.

5.5.3 Lock Control



Channel Lock

When you change "Channel Lock" to "On" or "Off", service channel can get or not from that set values.

- If you select "On", you need PIN code every time you select the lock channel program as you set in the channel control.
- If you select "Off", you can see all channels without PIN code.

Parental Rating Lock

Parental Rating Lock enables you to place certain restrictions on the viewers by setting age limits. The password is required to view the blocked programs.

Press the $\blacktriangle$ / $\blacktriangledown$ button to select to the required option and press the **OK** button.

Menu Lock

If the Menu Lock is set to "On", the PIN code is needed to set the Edit Channel List and System Setting.

Change PIN Code

You can change the PIN code from the standard 0000.

DO NOT FORGET IT! Without it, you are not able to access to any of the functions where the code is required.

You can change password for Channel Lock and Menu Lock simultaneously.

1. Enter the current PIN code using **Numeric** (0~9) button on the remote control.
2. In the selected New PIN code, enter a new PIN code.
3. To verify the new PIN code, re-enter a new PIN code in the selected confirm PIN code.
 - If the PIN code is correct, the message "Success" will be displayed on the screen.



If you forget the PIN code, press the **Color** button in sequence:

Red → Green → Yellow → Blue.

The PIN code will be changed to "0000".

5.5.4 AV Setting

You can set various options related to input/output signals.



TV

You can set the aspect ratio of your TV.

Press the $\blacktriangle/\blacktriangledown$ button to the required option and press the **OK** button.

- If you have a TV set with 4:3 picture format, select 4:3 TV and if you have a TV set with 16:9 picture format, select 16:9 TV.



Display Format

You can select the display format according to the TV screen ratio.

Press the $\blacktriangle/\blacktriangledown$ button to select the required option and press the **OK** button.

4:3 TV	Auto, Letterbox, Center cut
16:9 TV	Auto, Pillarbox, Pan and scan



Resolution

The receiver supports various video resolutions (480p, 720p, and 1080i).

Press the $\blacktriangle/\blacktriangledown$ button to select the required option and press the **OK** button.

5.5.5 RF Channel

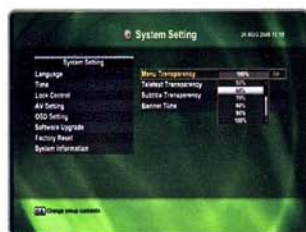


You can change the RF channel by VHF 3 or VHF4.

Press the $\blacktriangle/\blacktriangledown$ button to select the required channel and press the **OK** button.

5.5.6 OSD Setting

You can adjust the on-screen transparency and set the banner time.



Menu/Teletext/Subtitle Transparency

From 20% to 100% will give the variable transparency on Video and OSD screen.

Press the **▲/▼** button to select the required transparency and then press the **OK** button.

- The transparency will be applied on the screen.



Banner Time

When you switch channels, an information banner will be shown for a few seconds. You can select for how long the banner will be shown.

Press the **▲/▼** button to select the banner time (1~10sec) you want and then press the **OK** button.

- Each selectable time items has meaning of the interval time during a channel banner stays on changed channel screens.

5.5.7 Software Upgrade

Software can be downloaded through OTA (Over The Air) or USB connection.



OTA Upgrade

It is possible to set up OTA upgrade manually.

Please check if there is new software as pressing the **OK** button after entering **Frequency, Symbol Rate, Const.**

Updated software will be downloaded.



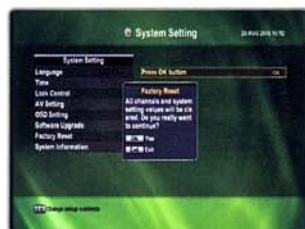
USB Upgrade

You can upgrade the software using the USB jack at the back of the receiver.

1. Press the **▲/▼** button to select "USB Upgrade" and press the **OK** button.
2. Press the **▲/▼** button to select the upgrade file and press the **OK** button. The software upgrade will begin.

5.5.8 Factory Reset

Use this option only if you have to start the complete installation procedure from scratch. If you perform the Factory Reset, all your previous settings and all channels will be cleared! The default data will be loaded.



1. Press the **▲/▼** button to select **"Factory Reset"** and then press the **OK** button.
2. If you want to reset, press the **OK** button, or press the **EXIT** button to exit this menu.

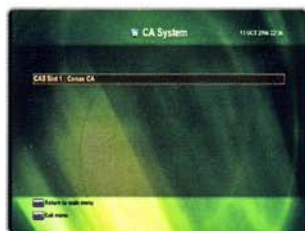
5.5.9 System Information

Displays the system information: Model name, S/W, H/W, Loader version, Kernal, MAC address, Chip ID.



Press the **▲/▼** button on the Setup list to select **"System Information"** and then press the **OK** button.

5.6 CA System



The menus are provided by the CA module and its smart card.

Your receiver is equipped with 1 slot of smart card.

Plug in the appropriate a valid smart card.

You will then have access to the respective scrambled and Pay-Per-View services provided.

Insert the smart card into the slot. The smart card determines the programs that can be de-scrambled. The smart card contains your subscription details so that you can view your entitlement.

- If you do not insert the smart card, you will see the message **"Insert the valid smart card"**.
- If you insert the smart card into the slot then you can watch your selected channel.

6. PVR Guide

6.1 Recorded List

You can check the recorded program on "File List".

6.1.1 Recorded List screen

Press the **Recorded List** button on the remote control to display the recorded list. The recorded list displays as the following. Also you can view the recorded list in the "PVR" > "File List" menu.



1		Path of present folder
2		Recorded program list
3		MP3 file list
4		Photo file list
5		Thumbnail of recording
6		Used size of HDD
7		Folder icon
8		File Icon
9		File name, time, date, duration
10		Button help

When a USB memory or external HDD is connected to the USB jack or SATA jack, the USB or external HDD icon is displayed on left of File List screen.

6.1.2 Play Option



1. Press the **Recorded List** button on the remote control.
 - The recorded list will appear.
2. Press the **▲/▼** button to select the required program and press the **OK** button.

Begin	To play the program from the beginning.
Continue	To continue to play from the previous stop point.
Descramble	To descramble file and store it again.
Cancel	To cancel playback.

3. Press the **▲/▼** button to select "**Begin**" or "**Continue**" and press the **OK** button.
 - The selected program is played back.
 - When press the **Progress bar** button on the remote control, progress bar is displayed on the screen.
 - To display the help box, press the **Blue** button while the progress bar appears on the screen.

6.2 Progress Bar



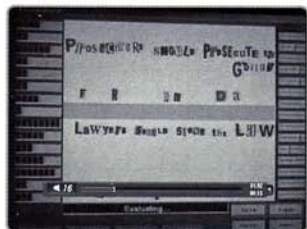
Press the **Progress bar** button while watching a recorded program to display the progress bar. Progress bar displays the current play status, the recorded time, and elapsed time.

6.3 Playback

The program can be played in various ways.

6.3.1 Fast-Forward/Rewind

The Fast-Forward and Rewind functions enable the user to view the forward, backward or any required part of the program.



- To view forward parts press the **▶▶** (Fast Forward) button and to view previous parts press the **◀◀** (Fast Rewind) button on the remote control.
- Each time you press the button, the speed increases. (x2, x4, x8, x16, x32)
- Press the **▶** (Play) button at the required place to play at the recorded speed.

6.3.2 Slow motion



- Press the **II** (Pause) button during playback, and press the **◀◀** (Fast rewind) / **▶▶** (Fast forward) button to play backward/forward as slow motion.
- Each time you press the button, the program plays at 2x, 4x, 8x, 16x, and 32x speed.
- Press the **▶** (Play) button to play at the recorded speed.

6.3.3 Instant Replay



- Press the **↺** (Replay) button to jump back and play from that location. When the replay is completed the program will play from the current point.
- You can set the replay time interval by using the PVR setting menu.

6.3.4 Commercial Skip



- Press the **⏭** (Skip) button to jump forward and play from that location. When the skip is completed the program will play from the current point.
- You can set the skip time interval by using the PVR setting menu.

6.3.5 Direct jump



1. Press the **Progress bar** button on the currently playing screen. The progress bar will appear.
2. Press and hold the **◀▶** button to move the location icon to a time point and release the **◀▶** button to play the program from the specified time point.

6.3.6 Repeat A-B

You can set a specific block within a recorded program and play it back repeatedly.

Press the **Yellow** button once at the start position and press the **Yellow** button again at the end position. The program is played back the selected block repeatedly.



To stop repeat mode

1. Press the **OK** button.
2. Press the **▲/▼** button to select "**Off repetition**" and press the **OK** button. Alternatively you can use the **Yellow** button.

6.3.7 Bookmark

Use bookmarks to search positions quickly and conveniently.



1. Press the **Progress bar** button on the currently playing screen. The progress bar will appear.
2. Press the **Red** button at a certain position to set a bookmark.
3. Press the **Green** button to display bookmark list and press the **◀▶** button to select the location you want to view.
4. To delete a bookmark, select the location you want to delete and press the **Red** button.

6.4 Time Shift Recording



The receiver automatically saves the program in the built-in hard disk drive temporarily, so that users can pause, play, fast rewind, fast forward, replay, etc. even while watching the currently broadcasting TV program. When you press the ◀◀ (Fast Rewind) or || (Pause) button, the time shift will be start.

6.5 Instant Recording



You can record a program using the built-in hard disk drive without an external media device.

Press the ● (Record) button to record the current program instantly. The record icon and default record time is displayed.

6.6 Multi Channel Recording



You can record two channels simultaneously.

6.7 Stop Recording



1. Press the ■ (Stop) button.
The stop list is displayed.
2. Press the ▲/▼ button to select the recording list to be stop and press the ■ (Stop) button.

6.8 MP3/Photo

You can play MP3 or photo files stored on built-in hard disk drive, USB memory, external HDD (SATA). Use a USB cable to connect the USB memory or external HDD (SATA) to the receiver.

6.8.1 Connecting the USB Memory/External HDD (SATA)

1. Save MP3 and image files into USB memory or external HDD from your PC.
2. Connect the USB memory or external HDD to **USB** or **SATA** jack on the receiver.

6.8.2 Playing back the Files



1. Press the ◀/▶ button to select "PVR" in the main menu and press the OK button.
2. Press the ▲/▼ button to select "File List" and press the OK button.
3. Press the ▲/▼ button to select "MP3" or "Photo" and press the OK button.
The MP3 or Photo files are displayed.
4. Press the ▲/▼ button to select the required file and press the OK button.
The selected file is played back.